

Course content with tentative schedule for the course

Title: Fuzzy interpolative controller and applications

Expert: Prof. Valentina E Balas, University “Aurel Vlaicu” Arad, Romania.

Tentative Date: 19 – 26 September 2016

Total Contact hours: 27 hours, Credits: 2

Lecture Plan				
Lecture	Date	Topic	Contact Hours	Remarks
1	19 Sep	Introduction to Fuzzy Sets, Fuzzy Logic	2 hours (M)	
2	19 Sep	Basics on design of Fuzzy Controllers	2 hours (E)	
2	20 Sep	Tutorial	2 hours (M)	
3	20 Sep	Control of nonlinear systems using phase trajectory	2 hours (E)	
4	21 Sep	Fuzzy controllers for adaptive control	2 hours (M)	
5	21 Sep	Fuzzy controllers using linguistic design	3 hours (E)	
6	22 Sep	Fuzzy interpolative controllers	2 hours (M)	
7	22 Sep	Tutorial: Fuzzy self-adaptive interpolative controllers	2 hours (E)	
8	23 Sep	Fuzzy self-adaptive interpolative controllers	2 hours (M)	
9	23 Sep	Tutorial on Fuzzy self-adaptive interpolative controllers	2 hours (E)	
10	26 Sep	Fuzzy fusion self-adaptive interpolative controllers	2 hours (M)	
11	26 Sep	Tutorial on Fuzzy fusion self-adaptive interpolative controllers	2 hours (E)	
12	26 September	Application–Modeling and control of an air conditioning system for an un-compartmented railway coaches	2 hours	
		Examination	1 hour	

Note: M – Morning hours, E- Evening hours. The time will be decided as per the convenience of expert at a later date.